

## ABSTRACT

The present invention relates to a method for mass propagating the adventitious root of ginseng, camphor ginseng, wild ginseng by tissue culture and improving the saponin content. More specially, the method comprises the steps of: tissue culturing of the leaf, root, stems of ginseng, camphor ginseng, wild ginseng and dissecting the callus; Propagating the adventitious root, which was developed by above dissected callus; Mass culturing of the propagated adventitious root in a bioreactor. Especially, the present invention makes it possible to produce the adventitious root that has enriched saponin content and the ratio of diol saponin and triol saponin being the same level of the natural ginseng, thereby, it can provide more valuable adventitious root in commercial and usefulness.